



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



July 12, 2002
DAM #179.01
Letter of Deficiency

Mr. Gary Rathmell
34 North Main Street
Newton, NH 03858

RE: Ice Pond Dam, Newton

Dear Mr. Rathmell:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on February 13, 2002. During this visual inspection and/or file review, the following deficiencies were observed:

- 1 The dam does not have adequate discharge capacity to pass the design event with 1 foot of freeboard;
2. There is soil erosion due to overtopping located to the right of the stoplog section on the upstream face, crest, and downstream face of the embankment. In addition, the earthen cross section located to the right of the stoplog bay is rather thin;
3. There is tree and brush growth along portions of the entire upstream face of the dam;
4. The left upstream stoplog concrete training wall is in poor condition. There are several cracks in the concrete;
5. There is seepage through the stone wall located on the downstream face of the dam to the left of the stoplog structure;
6. The crest of the dam is generally uneven and appears to only have 1 foot of freeboard located from the right abutment approximately 50 feet toward the stoplog structure;
7. There is no operations and maintenance plan on file with the DES; and
8. There is a settlement area approximately 12 inches round by 2 inches deep located approximately 50 feet to the right of the stoplog structure.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

November 1, 2002:

1. Increase the discharge capacity of the dam to pass the design event with a minimum of one foot of freeboard;

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2. Remove all trees and brush from the upstream face of the dam;
3. Repair the soil erosion located to the right of the stoplog structure and increase the crest width to a minimum of 6 feet;
4. Monitor the seepage through the downstream face stone wall
5. Prepare and submit an operations and maintenance plan; and
6. Fill and compact the settlement area located approximately 50 feet to the right of the stoplog structure.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

As a result of this scheduled inspection combined with our file review, DES has determined that the hazard classification of this dam has been upgraded to a low hazard class A dam. As a result of this change in hazard classification you will now be responsible for an annual dam registration fee of \$100. The inspections will still occur every 6 years.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

COPY

Jeffrey M. Blaney
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13
cc: Gretchen Rule✓

Town of Newton

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